Transferring File from Single PC

Mode - Parallel

|  |  |  |
| --- | --- | --- |
| Type | Size | Time(Sec) |
| pdf | 18mb | 198 |
| pdf | 10.1mb | 94 |
| pdf | 1.19mb | 10 |
| txt | 10k | 1 |

Transferring File from Single PC

Mode - Serial

|  |  |  |
| --- | --- | --- |
| Type | Size | Time(Sec) |
| pdf | 18mb | 204 |
| pdf | 10.1mb | 103 |
| pdf | 1.19mb | 13 |
| txt | 10k | 1 |

Download File from S3

|  |  |  |
| --- | --- | --- |
| Type | Size | Time(Sec) |
| pdf | 18mb | 44 |
| pdf | 10.1mb | 25 |
| pdf | 1.19mb | 5 |
| txt | 10k | 0.4 |

The systems current time is used to measure performance of S3.

It compares the time upload started against the time when upload was completed.

Analysis 1 :

For a file of size 18mb it took 198 sec from local machine to upload it to S3 via Parallel mode of transfer

For a file of size 18mb it took 204 sec from local machine to upload it to S3 via Serial mode of transfer

Result :

Parallel mode of transfer breaks the data into smaller parts and uploads it simultaneously. So it is faster than Serial mode of transfer.

Analysis 2:

For a file of size 10.1mb it took 198 sec from local machine to upload it to S3 via Parallel mode of transfer

For a file of size 10.1mb it took 10 sec from local machine to upload it to S3 via Parallel mode of transfer

Result :

10.1 mb file doesnt takes 10 times the time to upload to that of 1mb file, as connection is once made, process continues till whole file is finished and is quicker.

Analysis 3:

Time taken to upload is more than the time taken to download

Result :

Write takes more time than read.

**References**

1. [**http://docs.aws.amazon.com/AmazonS3/latest/dev/llJavaUploadFile.html**](http://docs.aws.amazon.com/AmazonS3/latest/dev/llJavaUploadFile.html)
2. [**http://docs.aws.amazon.com/AmazonS3/latest/dev/RetrievingObjectUsingJava.html**](http://docs.aws.amazon.com/AmazonS3/latest/dev/RetrievingObjectUsingJava.html)
3. [**http://docs.aws.amazon.com/AmazonS3/latest/dev/UploadObjSingleOpJava.html**](http://docs.aws.amazon.com/AmazonS3/latest/dev/UploadObjSingleOpJava.html)